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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,525	01/29/2004	Shuo Gu	MA-094-I	5515
7590 11/29/2005		EXAMINER		
MATRIX SEMICONDUCTOR 3230 Scott Blvd.			BRYANT, DELORIS S	
Santa Clara, CA 95054			ART UNIT	PAPER NUMBER
			2813	
			DATE MAILED: 11/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/767,525	GU, SHUO				
Office Action Summary	Examiner	Art Unit				
	Deloris Bryant	2813				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 29 Ja	nuary 2004.					
, ,	action is non-final.					
· <u> </u>						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-11 is/are pending in the application.		·				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.	·				
Application Papers						
9)☐ The specification is objected to by the Examiner	<u>.</u>	·				
10)⊠ The drawing(s) filed on 29 January 2004 is/are:		to by the Examiner.				
Applicant may not request that any objection to the o		-				
Replacement drawing sheet(s) including the correcti	• • • • • • • • • • • • • • • • • • • •	• •				
11) The oath or declaration is objected to by the Ex	* * * * * * * * * * * * * * * * * * * *	• •				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> </ul>	have been received. have been received in Application ty documents have been receive	on No				
* See the attached detailed Office action for a list of the state of t	4)  Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Noguchi (US 6,005,270).

Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Marosi et al., 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above case law makes clear.

2. Regarding claims 1-4, Noguchi discloses a final product that is a thin film transistor comprising polysilicon (see Fig. 1; 31B), a charge storage region (Fig. 1; 22a, 32a, 33a), wherein the charge storage region is ONO-type (Fig. 1; 23a), and that the charge storage region comprises a floating gate (Fig. 1; 32a).

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6. Regarding claims 5-7, Noguchi discloses an end product that is a monolithic memory array comprising memory cells and these memory cells comprising TFTs comprising polysilicon (Fig. 3A). The process is immaterial because the end product is a memory array.

7. Regarding claims 8-11, Noguchi discloses a thin film transistor comprising a channel region (Fig. 3A-B), a charge storage region (Fig. 1; 22a, 32a, 23a, 33a), wherein the charge storage region is ONO-type (Fig. 1; 23a), and that the charge storage region comprises a floating gate (Fig. 1; 32a).

## Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deloris Bryant whose telephone number is (571) 272-8670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dsb

GEORGE ECKERT PRIMARY EXAMINER